

```

function Af = customimfilter(A, h)
    [N, M] = size(A);
    n = floor(size(h, 1)/2);
    Af = zeros(size(A));

    for x = 1:N %for each line
        for y = 1:M %for each column
            for i = -n:n
                for j = -n:n
                    i2 = i+n+1;
                    j2 = j+n+1;

                    x2 = x - i;
                    if (x2 <= 0)
                        x2 = x2 + N;
                    elseif (x2 > N)
                        x2 = x2 - N;
                    end

                    y2 = y - j;
                    if (y2 <= 0)
                        y2 = y2 + M;
                    elseif (y2 > M)
                        y2 = y2 - M;
                    end

                    Af(x,y) = Af(x,y) + h(i2,j2)*A(x2,y2);
                end
            end
        end
    end
end

```